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 JP 2005502326 T2 20050127 JP 2002-592342 20020327  
 US 2006115490 A1 20060601 US 2004-471571 20041020  
 PRIORITY APPLN. INFO.: GB 2001-7661 A 20010327  
 WO 2002-IB2637 W 20020327

ED Entered STN: 29 Nov 2002

AB The invention provides 2821 nucleic acid coding sequences from Staphylococcus aureus strain NCTC 8325 along with their inferred translation products. The proteins are useful for vaccines, immunogenic compns., diagnostics, enzymic studies, and also as targets for antibiotics.

IT 476558-05-1 476571-96-7 476578-60-6

RL: BSU (Biological study, unclassified); DGN (Diagnostic use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (amino acid sequence; Staphylococcus aureus proteins and nucleic acids and their diagnostic and therapeutic uses for staphylococcal infections)

L20 ANSWER 27 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:781494 CAPLUS

DOCUMENT NUMBER: 138:12031

TITLE: Essential genes in microorganisms and their use as targets for antisense inhibition of proliferation and antibiotic screening

INVENTOR(S): Wang, Liangus; Zamudio, Carlos; Malone, Cheryl; Haselbeck, Robert; Ohlsen, Kari L.; Zyskind, Judith W.; Wall, Daniel; Trawick, John D.; Carr, Grant J.; Yamamoto, Robert; Forsyth, R. Allyn; Xu, H. Howard

PATENT ASSIGNEE(S): Elitra Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 1766 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 22

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002077183	A2	20021003	WO 2002-XQ9107	20020321
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2002061569	A1	20020523	US 2001-815242	20010321
WO 2002077183	A2	20021003	WO 2002-US9107	20020321
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2001-815242	A 20010321

US 2001-948993	A 20010906
US 2001-342923P	P 20011025
US 2002-72851	A 20020208
US 2002-362699P	P 20020306
WO 2002-US9107	A 20020321
US 2000-191078P	P 20000321
US 2000-206848P	P 20000523
US 2000-207727P	P 20000526
US 2000-242578P	P 20001023
US 2000-253625P	P 20001127
US 2000-257931P	P 20001222
US 2001-269308P	P 20010216

ED Entered STN: 14 Oct 2002

AB The sequences of antisense nucleic acids which inhibit the proliferation of prokaryotes are disclosed. Thus, 6213 nucleic acid fragments are identified for which expression inhibits proliferation or is required for proliferation in *Enterococcus faecalis*, *Escherichia coli*, *Klebsiella pneumoniae*, *Pseudomonas aeruginosa*, *Salmonella typhimurium*, and *Staphylococcus aureus*. Cell-based assays which employ the antisense nucleic acids to identify and develop antibiotics are also disclosed. The antisense nucleic acids can also be used to identify proteins required for proliferation, express these proteins or portions thereof, obtain antibodies capable of specifically binding to the expressed proteins, and to use those expressed proteins as a screen to isolate candidate mols. for rational drug discovery programs. The nucleic acids can also be used to screen for homologous nucleic acids that are required for proliferation in cells other than *Staphylococcus aureus*, *Salmonella typhimurium*, *Klebsiella pneumoniae*, and *Pseudomonas aeruginosa*. The invention provides 38,184 such proliferation-required gene sequences (plus their encoded protein sequences). The nucleic acids of the present invention can also be used in various assay systems to screen for proliferation required genes in other organisms. [This abstract record is one of twenty records for this document necessitated by the large number of index entries required to fully index the document and publication system constraints.].

IT 477394-36-8 477395-07-6 477416-07-2

RL: BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(amino acid sequence; essential genes in microorganisms and their use as targets for antisense inhibition of proliferation and antibiotic screening)

L20 ANSWER 28 OF 43 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2002:781493 CAPLUS

DOCUMENT NUMBER: 138:1097

TITLE: Essential genes in microorganisms and their use as targets for antisense inhibition of proliferation and antibiotic screening

INVENTOR(S): Wang, Liangus; Zamudio, Carlos; Malone, Cheryl; Haselbeck, Robert; Ohlsen, Kari L.; Zyskind, Judith W.; Wall, Daniel; Trawick, John D.; Carr, Grant J.; Yamamoto, Robert; Forsyth, R. Allyn; Xu, H. Howard

PATENT ASSIGNEE(S): Elitra Pharmaceuticals, Inc., USA

SOURCE: PCT Int. Appl., 1766 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 22

PATENT INFORMATION:

INDEX NAME)

OTHER NAMES:

CN 335: PN: WO02077183 SEQID: 66335 claimed protein

SQL 2468

RN 477134-44-4 REGISTRY

SEQ 2101 NILTISAEPG TELTVTVDVG GVTATATVTA DNSGLASLNL LTDLDIDFSW

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HITS AT: 2123-2128

**\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\***

L21 ANSWER 46 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN

CN Protein (Neisseria meningitidis clone NME301662 essential) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 121: PN: WO02077183 SEQID: 66121 claimed protein

SQL 2514

RN 477132-31-3 REGISTRY

SEQ 501 TPTTATGTGT ATVSISNITA PTFADGTIRT HGALDNSGSI IANGQTDVSA

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HITS AT: 508-513

**\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\***

L21 ANSWER 47 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN

CN Protein (Neisseria meningitidis clone NME103369 essential) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3570: PN: WO02077183 SEQID: 65570 claimed protein

SQL 1491

RN 477127-03-0 REGISTRY

SEQ 501 TPTTATGTGT ATVSISNITA PTFADGTIRT HGALDNSGSI IANGQTDVSA

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HITS AT: 508-513

L21 ANSWER 48 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN

CN Protein (Mycobacterium tuberculosis clone MTU203377 essential) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2876: PN: WO02077183 SEQID: 64876 claimed protein

SQL 408

RN 477120-68-6 REGISTRY

SEQ 151 TATVTVKVDT GLNRNGVGPA QFPAMLTALR QAMAEDAVRL RGLMSHMVYA

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HITS AT: 151-156

**\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\***

L21 ANSWER 49 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN

CN Protein (Mycobacterium leprae clone MLP100239 essential) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1695: PN: WO02077183 SEQID: 63695 claimed protein

SQL 388

RN 477111-51-6 REGISTRY

SEQ 101 ALLADVQIAV SSVRQLDELL DAVRRTGRTA TVTVKADTGL NRNGVVTDOY

HITS AT: 129-134

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

L21 ANSWER 50 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN  
CN Protein (Mycobacterium bovis clone MBV101134 essential) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 413: PN: WO02077183 SEQID: 62413 claimed protein

SQL 370

RN 477098-69-4 REGISTRY

SEQ 101 DELLHAVRRT GRTATVTVKV DTGLNRNGVG PAQFPAMLTALRQAMAEDAV

HITS AT: 113-118

L21 ANSWER 51 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN  
CN Protein (Mycobacterium avium clone MAV105645 essential) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 147: PN: WO02077183 SEQID: 62147 claimed protein

SQL 391

RN 477096-03-0 REGISTRY

SEQ 101 FRPALLAGVQ IGLSSQRQLD ELLTAVRDTG RTATVTVKVD TGLNRNGVPP

HITS AT: 132-137

\*\*RELATED SEQUENCES AVAILABLE WITH SEQLINK\*\*

L21 ANSWER 52 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN  
CN Protein (Klebsiella pneumoniae clone KPN303893 essential) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1979: PN: WO02077183 SEQID: 59979 claimed protein

SQL 1048

RN 477074-36-5 REGISTRY

SEQ 51 GADAETVQNT VTQVIEQNMN GIDHLMYMSS NGDSTGTATI TLTFESGTD

HITS AT: 85-90

L21 ANSWER 53 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN  
CN Protein (Enterococcus faecium clone EFM200383 essential) (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3618: PN: WO02077183 SEQID: 57618 claimed protein

SQL 590

RN 477050-99-0 REGISTRY

SEQ 151 LQMANQLDQL PNRPVIVALT ATATVQVAAD IKRLLKIPEN NHIQTGFERE

HITS AT: 170-175

L21 ANSWER 54 OF 73 REGISTRY COPYRIGHT 2006 ACS on STN  
CN Protein (Corynebacterium diphtheriae clone CDP100137 essential) (9CI) (CA INDEX NAME)

OTHER NAMES: